



ELECTRONICS

Programmes

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1 '*****
2 '*   CLOCK   *
3 '* BY G.TUNNY *
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5 '*   JULY 1988 *
6 '*****

10 DATA33,192,121,53,192,54,60,58,197,121,60
20 DATA254,60,40,4,50,197,121,201,33,197
30 DATA121,54,0,58,194,121,60,254,60,40
40 DATA4,50,194,121,201,33,194,121,54,0
50 DATA1,0,1,33,42,0,205,92,52,58
60 DATA195,121,60,254,13,40,4,50,195,121
70 DATA201,33,195,121,54,1,201,0,0
100 TM=PEEK(30897)+256*PEEK(30898)-20
110 POKE30897,TM-INT(TM/256)*256+POKE30898,INT(TM/256)
120 TM=TM-1:A=TM-65536
130 FORI=0TO68
140 READD:POKEI+A,D
150 NEXTI
160 POKE30846,TM-INT(TM/256)*256+POKE30847,INT(TM/256)
170 POKE30845,195
200 CLS
210 S=31173:' STORAGE LOCATION FOR SECONDS
220 M=31170:' STORAGE LOCATION FOR MINUTES
230 H=31171:' STORAGE LOCATION FOR HOURS
240 PRINT"**ENTER CURRENT TIME**"
250 PRINT:INPUT"MINUTES":A:POKEM,A
260 INPUT"HOURS":A:POKEH,A
270 CLS
280 PRINT@20,"SECONDS",PEEK(S);" "
290 PRINT@0,PEEK(H);":":PEEK(M);" "
300 GOTO 280

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Clock

This is another of my interrupt controlled programs for all you VZ owners out there. This machine code program could be put into games as an accurate timer. Because this program does not depend on basic, it will not lose track of time when you break out of the program. There are only a few commands that will make it lose a second or two, such as DOS or sound

commands.

The storage locations used for the seconds, minutes and hours are written in the Basic program and can be poked to change them. It is advisable to save this program before you run it because machine code has a nasty habit of crashing.

G. Tunny
Gorokan
NSW

ADDR	CODE	LINE	LABEL	MNEM	OPERAND
		00100			WORDBEE ROUTINE TO INSERT PRINTER CONTROL COI
		00110			TO ENABLE DOUBLE WIDTH CHARACTERS TO BE PRIN
		00120			MID SENTENCE.
		00130			
		00140			Insert fingers (I) in the file where control
		00150			are to be placed, go to the monitor and run
		00160			utility. Fingers will then be replaced by co
		00170			codes.
		00180			
		00190			
F400		00200		ORG	0F400H
F400 F5		00210		PUSH	AF
F401 C5		00220		PUSH	BC
F402 D5		00230		PUSH	DE
F403 E5		00240		PUSH	HL
F404 AF		00250		XOR	A
F405 3241F4		00260		LD	(FLAG),A
F408 210009		00270		LD	HL,0900H
F40B E5		00280		PUSH	HL
F40C ED4B1D05		00290		LD	BC,(051DH)
F410 0B		00300	NXTBC	DEC	BC
F411 2B		00310		DEC	HL
F412 7C		00320		LD	A,H
F413 B5		00330		OR	L
F414 20FA		00340		JR	NZ,NXTBC
F416 E1		00350		POP	HL
F417 23		00360	NXTHL	INC	HL
F418 0B		00370		DEC	BC
F419 78		00380		LD	A,B
F41A B1		00390		OR	C
F41B 2005		00400		JR	NZ,SEARCH
F41D E1		00410		POP	HL
F41E D1		00420		POP	DE
F41F C1		00430		POP	BC
F420 F1		00440		POP	AF
F421 C9		00450		RET	
F422 7E		00460	SEARCH	LD	A,(HL)
F423 FE7C		00470		CP	7CH
F425 20F0		00480		JR	NZ,NXTHL
F427 3A41F4		00490		LD	A,(FLAG)
F42A FE01		00500		CP	01H
F42C 280A		00510		JR	Z,RESET
F42E 3E01		00520		LD	A,01H
F430 3241F4		00530		LD	(FLAG),A
F433 3E0E		00540		LD	A,0EH
F435 77		00550		LD	(HL),A
F436 1BDF		00560		JR	NXTHL
F438 AF		00570	RESET	XOR	A
F439 3241F4		00580		LD	(FLAG),A
F43C 3E0F		00590		LD	A,0FH
F43E 77		00600		LD	(HL),A
F43F 1BD6		00610		JR	NXTHL
F441 00		00620	FLAG	DEFB	0
0000		00630		END	
00000			Total errors		
RESET	F438	SEARCH	F422	NXTHL	F417
FLAG	F441				NXTBC F410

Wordbee control code insertion

This utility program was developed to enable printer control codes to be sent mid sentence to print double width characters. The format is to insert a finger (I) character where the on and off codes are to be sent, e.g:

The IquickI red fox jumped over the IlazyI brown dog.

Then, from the Menu, go to the Monitor, run the utility, and the fingers will be replaced with alternative on and off codes. Returning to the file will display.

The <x>quick<.> red fox jumped over the <x>lazy<

.> brown dog.

And the resultant printout is.

The quick red fox jumped over the lazy brown dog.

The codes used in lines 540 and 590 are the on and off codes for my printer and should be changed to suit other printers. This utility may also be used for other codes but note that values below OBH will not work as Wordbee sees these as an end of print code.

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Mile End
SA